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Question Paper Code: 59720

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Mechanical Engineering

15UME920 - PRODUCTION PLANNING AND CONTROL

(Regulation 2015)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. _____ helps in establishing the interchangeability of products. CO1- R
 - (a) Standardization
 - (b) Simplification
 - (c) Specialization
 - (d) Diversification
2. Job evaluation is the method-of determining the CO1- R
 - (a) Relative worth of jobs
 - (b) Skills required by a worker
 - (c) Contribution of a worker
 - (d) Contribution of a job
3. Work Study Consists of _____. CO2- R
 - (a) Effective use of plant and equipment
 - (b) Effective use of human effort
 - (b) Evaluation of human work
 - (d) All of the above
4. Micro motion study is CO2- R
 - (a) Enlarged view of motion study
 - (b) Analysis of one stage of motion study
 - (c) Minute and detailed motion study
 - (d) Subdivision of an operation into therbligs and their analysis
5. The correct sequence of operation in production planning and control is CO3- R
 - (a) Addition of orders
 - (b) Failures in delivery commitment
 - (c) Cancellation of orders
 - (d) Complaints from customers

6. Routing assists engineers in deciding in advance CO3- R
- (a) Routing-Scheduling-Dispatching-Follow up
- (b) Scheduling-Routing- Dispatching-Follow up
- (c) Dispatching-Routing-Scheduling- Follow up
- (d) Routing-Scheduling-Follow up-Dispatching
7. Scheduling gives information about CO4- R
- (a) When work should start and how much work should be completed during a certain period
- (b) When work should complete
- (c) That how idle time can be minimized
- (d) Proper utilization of machines
8. Gnatt chart provides information about the CO4- R
- (a) Material handling (b) Proper utilization of manpower
- (c) Production schedule (d) Efficient working of machine
9. Which of the following is an example of purchasing costs? CO5- R
- (a) Incoming freight (b) Storage costs (c) Insurance (d) Spoilage
10. In ABC analysis, the classification is based on :- CO5- R
- (a) Carrying cost (b) Cumulative cost (c) Ordering cost (d) Raw material cost

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain about the functions of production planning cycle. CO1- U (8)
12. Briefly explain the different tools and techniques used in the recording phase of method study. CO2- U (8)
13. Explain briefly steps involved in value analysis. CO3- U (8)
14. Discuss in detail about the various factors that affect scheduling. CO4- U (8)
Explain any one technique used in loading and scheduling process.
15. Explain in detail with a block diagram, the basic elements of JIT manufacturing system. CO5- U (8)